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May 19, 1992

DERWENT-ACC-NO: 1992-214263
DERWENT-WEEK: 199226
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TITLE: Prepn. of caffeine free chlorogenic acid for antioxidant for food, etc. - comprises extraction of raw coffee bean(s) with water-contg. solvent, and contacting with strongly acidic cationic exchange resin

PATENT-ASSIGNEE: HASEGAWA CO LTD (HASE)

PRIORITY-DATA: 1990JP-0265201 (October 4, 1990)

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PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------------------------------------|---------------------|----------|-------|-------------|
| <input type="checkbox"/> <u>JP 04145048 A</u> | <u>May 19, 1992</u> | | 004 | C07C069/732 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|-----------------|----------------|------------|
| JP 04145048A | October 4, 1990 | 1990JP-0265201 | |

INT-CL (IPC): C07C 67/56; C07C 69/732; C09K 15/08

ABSTRACTED-PUB-NO: JP 04145048A
BASIC-ABSTRACT:

Prepn. comprises contact-treatment of extract obtd. by extraction of coffee raw bean, using water-contg. solvent, with strong acidic cationic exchange resin.

Solvent is pref e.g. methanol, ethanol, or propanol contg. 5 wt.% or more of water. The cationic exchange resin is pref. SK-116, or SK-1B, or Amberlite IR-120 (RTM).

USE/ADVANTAGE - Purified chlorogenic acid contg. no caffeine is obtd. for anti-oxidant of food, and pharmaceuticals.

In an example, 70% ethanol (1000g) is added to coffee raw bean (200g) which is extracted for 3 hrs. at 75degC to obtain extract soln. The soln. is condensed and formed into soln. (400g) with addn. of water and edible salt (40g). The soln. is treated with column of SP-207 (150 ml) for absorption of extract. the column is cleaned with water, and 60% ethanol (400g) to obtain elution soln. contg. chlorogenic acid, and caffeine. The soln. is treated with column of SK-1B (250 ml) for removal of caffeine. Obtd. elution soln. is dried to form purified chlorogenic acid (12g)

ABSTRACTED-PUB-NO: JP 04145048A
EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: B05 B07 D13 E14
CPI-CODES: B10-C03; B12-M06; D03-H01P; E10-C03;

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